BRUHAT BANGALORE MAHANAGARA PALIKE

T.N: EE-3/Lakes/Tend/07/2012-13, date:-28/01/2013

Executive Engineer-3,
Lakes, B.B.M.P
1st floor, Annex Building-3
N R Square, Bangalore-02

DRAFT TENDER SCHEDULE-B

Name of work :- Development of Waterbody-5 at J.P. park

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Sl No	Sanctioned Quantity	Unit	Sanctioned Rate	Amount	Component	Rate quoted by Contractor	
						in figures	in words
1	4764.20	Sqm	3.00	14293	Cutting and burning or disposing off Apu / Jondu from marshy areas as directed with initial lead upto 50 m and all lifts.		
2	19699.00	cum	107.00	2107793	Excavation and removal of silt or silt mixed with sand in slushy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with intial lead upto 50m and all lifts. (MI-2010-11 P-129, I-51)		
3	15704.10	cum	16.40	257547	Extra 2 km lead for filling additional lead charges 8.2 Rs/cum/km Notes (P-31 I-2)		
4	12243.00	cum	53.00	648879	De-silting tank bed/feeder channel in dry condition by excavating the deposited bed material and loading the same to transport vehicle (excluding cost of transportation) including cost of all machinery, labour etc., complete with lead upto 1 km and all lifts. (MI-2010-11 P-130, I-54.b.)		
5	480.00	hrs	105.40	50592	Dewatering by mechanical means including hire charges of machinery,fuel and crew charges etc., complete as per the direction of the Engineer- in charge		
6	3492.00	sqm	1.20	4190	Clearing thick jungle growth (less than 50 percent open space) including bushes upto 300 mm / parthenium and other weeds including burning or disposing off the same as directed etc., complete (MI BCSR 2010-11. P-121, I-1.b)		

	[illegible]	[illegible]	[illegible]	[illegible]	Excavating grip trenches of specified size in all kinds of soil in existing bund for abutting fresh embankment to strengthen the existing bund including disposing off the excavated soil in specified dump area or as directed with lead upto 50 m and all lifts. (MI BCSR 2010-11. P-127, I-38)	
	[illegible]	[illegible]	[illegible]	245373	Providing new embankment abutting to existing bund to strength the existing bund using soil available in adjacent area in layers of 200 to 250 mm and compacting each layer to density control of not less than 95 percent by vibrating plate compactor or pnuematic tamper including cost of all materials, machinery, labour, picking previous layer, spreading soil in layer, breaking clods, watering etc., complete with lead upto 50 m and all lifts. (MI BCSR 2010-11. P-127, I-39.b.)	
	[illegible]	[illegible]	61.00	28930	Excavation for foundation in all kinds of soil including boulders upto 0.60 m dia (0.113 cum) for dam, barrage, spillway, intake structure and other appurtenant works and placing the excavated soil neatly in dump area or disposing off the same as directed etc., complete with initial lead upto 1 km and all lifts. (MI BCSR 2010-11 P-32, I-1)	
10	[illegible]	cum	3272.00	123583	Providing and laying insitu vibrated M-15 (28 days cube compressive strength not less than 15 N / sq mm) grade cement concrete using 40 mm down size approved, clean, hard, graded aggregates with placing and sinking plums of size 150 to 80 mm upto 15 percent for gravity type structures including cost of all materials, machinery, labour, formwork, scaffolding, cleaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing etc., complete with initial lead upto 1 km and all lifts. (Cement content : 204 kg / cum with use of plums and super plasticiser) (MI BCSR 2010-11. P-32, I-1)	
11	63.81	cum	2291.00	146189	Providing and constructing coursed rubble face stone masonry using approved rubble stones in cement mortar 1 : 4 proportion including cost of all materials, machinery, labour, scaffolding, ramps, cleaning, packing mortar, wedging stone chips, curing etc., complete with initial lead upto 1 km and all lifts. (MI BCSR 2010-11. P-37, I-26)	

	[illegible]	cum	1008.00	98403	Providing and laying insitu vibrated M-15 (28 days cube compressive strength not less than 15 N / sq mm) grade cement concrete using 20 mm down size approved, clean, hard, graded aggregates including cost of all materials, machinery, labour, formwork, scaffolding, centering, leaning, batching, mixing, placing in position, levelling, vibrating, finishing, curing etc., complete for plain concrete works with initial lead upto 1 km and all lifts. (Cement content : 290 kg / cum with use of super plasticiser) (MI BCSR 2010-11. P-35, I-17)		
13	3113.00	cum	571.20	1206374	Providing and constructing dry rubble rock-toe using rubble and stone chips from approved source including cost of all materials, machinery, labour, hand packing rubble and stone chips, finishing top and sides to required slopes etc. complete with initial lesd upto 1 km and all lifts. (MI-2010-11,P-40,I-41) for extra lead taken 25 km = Lead more than 4km upto 5km - basic lead = (Rs.85.10 - 52.9)+ Every km beyond 5km upto 30km Rs 7.40/km = Basic rate + Lead charges = Rs.391 +32.2+Rs.148.0 = Rs 571.2		
14	4375.00	sqm	343.09	1501019	Providing and constructing 450mm thick hand packed rough stone revetment consisting of 300 mm thick rough stones with 400 to 450 mm long through stones at 1.5 m c/c over a backing of 150 mm thick 40 mm down graded coarse aggregate layer includig cost of all materials, machinery, labour, laying to specified slope, wedging with chips, finishing etc., complete with initial lead upto 50 m and all lifts. (MI-2010-11, P-42,I-49) (MI-2010-11, P-42,I-49) for extra lead taken 25 km =(Lead more than 4km upto 5km - basic lead) = (Rs.85.10 - 52.9) + Every km beyond 5km upto 30km Rs 7.40/km = Basic rate + Lead charges = Rs.262.00 + 32.2+Rs.148.0(Cum rate converted into sqm Rs.180.2 x 0.45 thick = 81.09) = Rs 343.09		

	[illegible]	[illegible]	[illegible]	[illegible]	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 Note:- Excavation for foundation of buildings, water supply sanitary lines, electrical conduits either in pits or in trenches where excavation width is above 600 mm below 1.5 mtrs. add 25% extra (P W D BCSR 2012-13 P-5 I-2.4)		
	[illegible]	[illegible]	[illegible]	77327	lift above 1.5 mtr height (item 2.21)		
	[illegible]	[illegible]	3812.82	621246	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P W D BCSR 2012-13 P-12 I-4.3)		
18	777.66	cum	5142.06	3998772	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (P-12 I-4.11) Note :-P-19 Sl-7 lift charges: An additional rate of Rs.50.00/cum		

					KSRB 4.3.3 : Providing and laying in position reinforced cement concrete of design mix M30 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (P-12 I-4.11) Note :-P-19 Sl-7 lift charges: An additional rate of Rs.50.00/cum		
					KSRB 4-9.2: Providing T.M.T. steel (Cold, Twisted) reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding whereever required, lying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and Paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3(P W D BCSR, 2012-13 P-19, I-4.46)		
					KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (P W D BCSR 2012-13 P-16 I-4.28)		
					KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton.Specification No. KBS 4.6.2 (P W D BCSR 2012-13 P-17 I-4.32)		

			1301986	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(P W D BCSR 2012-13 P-17,I-4.31)		
			867804	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (P W D BCSR 2012-13 P-120, I-15.19)		
			173452	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.with primer (P W D BCSR 2012-13 P-124, I-15.51.2)		
			2441175	Providing,preparing, transportation and fixing of precast compound wall panel of 120mm thick with RCC pillar fixed on RCC post using M-20 Grade Concrete, 6mm steel, vibrating with plate vibrator. The panel of size 2.4mX0.6mX0.12m and pillar of size 0.24mX0.24mX3.0m will be erected at the work spot using suitable crane above the ground level including cost of material admixture, cost of all labour curing, lead, loading, unloading and all other miscellaneous works etc... complete (as per data rate)		
			159569	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. No. KBS 2.9 (P W D BCSR 2012-13 P-6, I-2.10)		

					6.5BR 1:1.6 : Providing and laying in position plain cement concrete of mix 1:1.6 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (PWD BC'SR 2012-13 P-12 I-4.6)		
					Supplying and fixing M. S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms . Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the direction of the Engineer-in-charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P-267 I-37.2)		
					Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suaitable bolts & nuts , the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead &lift as directed by the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint. (P-267 I-37.3)		
					Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends , cutting the pipes, and fixing pipe in between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. (P-267 I-37.4)		

				KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, watersupply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil; clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1 (a) / 2.3.5 (P W D BCSR 2012-13 P-5, I-2.3)		
				lift above 1.5 to 3.0 mtr		
				lift above 3.0 to 4.5 mtr		
				extra 10% for foul condition		
				Extra 20% for water/foul, Note :(7/2)		
				Extra 20% for water/foul, Note :(7/2)		
				KSRB 2.8 : Providing and Filling in foundation with granite/trap broken metal 100 mm and down size,with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications (P W D BCSR 2012-13 P-6, I-2.15)		
				KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PWD BCSR 2012-13 P-12 I-4.2)		
				KSRB 4-6.2 :Providing and removing centering, shuttering, strutting, propping etc., and removal of formwork for flat surface such as roof thickness upto 200 mm including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 etc., (P W D BCSR 2012-13, P-16 I-4.29)		

			22089	KSRB 4-6.9 :Providing and removing centering, shuttering, propping etc., for edges of slabs and breaks in floor, cills, plinth including of all materials, labour complete as per specificaitons. Specification 4.6.2 (P W D BCSR 2012-13, P-17 I-4.36)
			82998	KSRB7.9: Providing and fixing M.S. work weighing 60 kg/sqm including grinding the welded joints including transporation to site of work existing structure by CC 1:2:4 with necessary hold fasts suitable to structure firmly and to withstand the water current etc., complete including labour and hire charges of machinery with all lead and lifts etc., as per including cutting steel sections and welding the same to required coat of red lead primer , cost of materials, fixtures, labour and machinery comp-lete as per specifications ,complete as per the engineer.For comparision and arriving of rates the following considered.(P W D BCSR, 2012-13, P-37, I-7.9)
	kg	92.22	55332	KSRB7.9: Providing and fixing M.S. work weighing 40 kg/sqm including grinding the welded joints including transporation to site of work existing structure by CC 1:2:4 with necessary hold fasts suitable to structure firmly and to withstand the water current etc., complete including labour and hire charges of machinery with all lead and lifts etc., as per including cutting steel sections and welding the same to required coat of red lead primer , cost of materials, fixtures, labour and machinery comp-lete as per specifications ,complete as per the engineer.For comparision and arriving of rates the following considered.(P W D BCSR 2012-13, P-31, I-7.9)
	Cum	2710.42	551234	KSRB 5.2-3 : Providing and constructing granite / trap / laterite masonry in foundation cement mortar 1:6, stone hammered dressed to less than 20 cms high, bond stones at two m. apart in each course of materials, labour, curing complete as per specifications. KSR BCSR, 2012-13 P-25, I-5.6)

	Cum	3164.10	31135	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P W D BCSR, 2012-13 P-25, I-5.9)		
	Sqm	447.96	36285	Providing and constructing 300 mm thick size stone pitching using 200 to 250 mm size stones with pin headers at 2 per sqm set in CM 1 : 5 proportion with pointing joints in CM 1 : 3 proportion including cost of all materials, labour, packing stone chips and mortar, finishing, curing etc., complete with initial lead upto 50 m and all lifts. (MI BCSR 2011-12. P-60, I-62.) for extra lead taken 20 km =(Lead more than 4km upto 5km - basic lead) = (Rs.85.10 - 52.9) + Every km beyond 5km upto 30km Rs 7.40/km = Basic rate + Lead charges = Rs.405.00 + Rs.42.96(Cum rate converted into sqm Rs.143.2 x 0.3 thick = 42.96) = Rs 447.96		
50	cum	180.20	20273	KSRRB M200-15.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as perspecifications. iii) ismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202 KSRRB M200- 15.2. –do– B. Rubble stone masonry in cement mortar. (P W D BCSR 2012-13 P-146 I-18.27)		
0.00	mtr	29.68	5936	KSRRB M200-29. Dismantling of barbed wire fencing / wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable material and unserviceable material separately complete as per specifications. MORTH Specification No. 202 (P W D BCSR 2012-13 P-147 I-18.54)		
60.16	sqm	70.27	11254	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.PWD SR 2012 - 13; Page No. 120, Item No. 15.3		

113.00	cum	273.27	30879	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, culverts, watersupply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil; clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1 (b) / 2.3.5 (5/2.4)
				KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(14/4.31)
58.51	sqm	260.76	15257	Lift between 3.5 to 4.5 mts
58.51	sqm	281.96	16497	Lift between 4.5 to 5.5 mts
30.51	sqm	303.16	15313	Lift between 5.5 to 6.5 mts
396.08	sqm	157.94	62557	KSRB15-3.4: Providing 15mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(P-120 I-15.12)
145.72	sqm	95.40	13902	Providing and applying food grade epoxy painting to over head tank and sump tank after cleaning and drying including pumping and bailing out of water including cost of material, labour, lead, lift etc. complete (Page No. 69, item no.10.6 BCSR 2012-13)
400.00	cum	239.20	95680	Disposal of excess earth up to 20 kms lead (Loading and Unloading charges+Lead more than 4 km upto 5 km+Every km beyond 5 km upto 30 km) = 51.40+9.50+68.80+7.3x15km=239.20 Rs (M I - 2010-11 P-21&22 Sl-5&6-1&2)

	cum	4406.42	7138	KSRB 4.2.7: Providing and laying in position reinforced cement concrete of mix 1:2:4 with 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C.beams,columns of all sizes in foundation plinth and superstructure ground floor level for roof slabs, staircase, lintels, columns, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.(excluding cost of steel, fabrication & plastering) Specification No. KBS 4.1, 4.6 etc., (P-15 I-4.18)		
1341.00	kgs	136.74	1841067	Fabricating, providing and erecting in poiston of M S Ornamental security Grill without hot dip using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providng two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes etc as per specification and drawings (P W D BCSR 2012-13 P-46, I-7.33) 15kg/Sqmtr		
1.00	ton cap	29500.00	29500	Design, fabrication, supply, erection,testing and commissioning of adequate capacity screw type hoist consisting of supporting structure, platform, ladder etc., with all accessories for operating canal escape / regulator gate including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint etc., complete with all leads and lifts. (MI BCSR 2010-11. P-114, I-32)		
100.00	mtr	7500.00	750000	Providing and placing through Trenchless Technology a pipe of 450mm dia between the manhole of BWSSB @ service road to the Jackwell of JP park (near public toilet)		

1137.50	sqm	79.00	168863	Providing and laying Hariyala or other approved quality turfing sods for the slopes of earthen embankments over 20 mm thick sand backing including cost of all materials, machinery, labour including preparing surface, spreading sand including tamping, watering for 15 days etc., complete with initial lead upto 1 km and all lifts. (MI BCSR 2010-11. P-42, I-50.) Extra lead 15 km taken 15x0.6= Rs 9.00 basic rate + lead charges = 70+9 = Rs 79.00
63.20	sqm	218.36	13801	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (P W D BCSR 2011-12 P-16 I-4.29)
24.00	mtr	5560.76	133458	Providing and fixing 304 - grade stainless steel hand rails of 14-gauge pipes for Ramps or Staircase are made out of stainless steel hallow pipes, using 50mm dia for verticals @1.60 mtr c/c are fixed tot he ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of Vertical pipes 4 - Nos anchor bolts & 40mm dia pipes are fixed horizontally for 2-rows top, one pipes are fixed with vertical pipes another one are fixed with elbows and 25mm dia pipes are fixed horizontally for 2-rows below top measure @ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottoms & corners finishing with mat / shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work. Ramps or Staircase for physically challenged. (P W D BCSR 2011-12 P-48 I-7.39)
72.00	sqm	15.90	1145	KSRB 14.7-4 : Extra for making chequers of approved pattern on cement concrete floor, steps, landings, pavements , including cost of labour complete as per specifications. Specification No. KBS (P W D BCSR 2011-12 P-109 I-14.11)

Cum	198.75	3518	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications, specification. No. KBS 2.1(a) / 2.3.5 (PWD BCSR 2012-13 P-5, I-2.3) Excavation for foundation of buildings, water supply sanitary lines, electrical conduits either in pits or in trenches where excavation width is above 600 mm below 1.5 mtrs, add 20% extra and for width upto 600 mm add 20% extra for respective rates due to restricted conditions.
TOTAL		29119560	

The Lead cost for coveying the desilted material will be paid only as per the approved **lead chart from the Competent Authority**

to be fiiled up both in words and figures by the firm/Contractor

ired to carry out the above work at the rates mentioned in thd schedule.

dress

Under schedule may kindly be approved

Engineer
MP

Assistant conservator of Forest
Lakes, BBMP

Executive Engineer-3
Lakes, BBMP 28/01

Approved

Chief Engineer
Lakes, BBMP